

XV.—Some Additions to the Dragonfly Fauna of Borneo. By F. F. LAIDLAW.

CALOPTERYGINÆ.

1. *Vestalis beryllæ*, n. sp.

One male, Retuh.

Length of abdomen 70 mm., of hind wing 41 mm.

A single row of cells between Cu_1 and Cu_2 . In the front wing this row breaks up into several near the wing margin; in the hind wing it remains single up to the marginal cell. The wings are slightly tinged with yellow. The body is entirely metallic green in colour, save for the under surface of the head which is black, as are the legs and anal appendages; whilst the under surface of the thorax is powdered with whitish bloom. The great relative length of the abdomen is more remarkable than is the case even in *V. gracilis*, Ramb., a species to which the present form bears a close resemblance.

The upper anal appendages are long and rather stout; at first curved inward they then diverge, and finally approach each other again, resembling when seen from above two figures **83** inverted and facing each other. The lower pair are short, one-half the length of the upper pair, cylindrical, slender, and nearly straight.

This very distinct new species is an interesting addition to the genus.

The type is in the British Museum.

2. *Rhinocypha karschi*, Kruger.

R. karschi, Kruger, Stettin Entomol. Zeit. 1898, pp. 83–85; Laidlaw, Proc. Zool. Soc. London, 1902, p. 90.

Three males, Tatau.

This interesting species has the stature and appearance of a *Micromerus*, but its venation is that of a *Rhinocypha*. It appears to be the only species of the genus which is

found in the Malay Peninsula, Sumatra and Borneo together.

I have not had an opportunity of discussing the matter with M. Martin, but I am inclined to think that his *Micromerus robropictus* is synonymous (see Martin, Bull. Mus. d'Hist. Nat. 1902, no. 7, p. 508).

AGRIONINÆ.

3. *Ceriagrion bellona*, sp. n.

Two males, Mt. Matang, Sarawak, December, 1913; one male, Kina Balu (imperfect), September, 1913.

A* separating before the level of the cubito-anal cross-vein. Twelve postnodal nerves. Wings in the maturer specimens lightly tinged with brownish-yellow. Pterostigmata dark brown. Excision on hind margin of segment 10 Λ -shaped.

Anal appendages: upper pair dark brown in colour, truncate, slightly decurved at their apices. Lower pair twice as long as upper pair, directed upwards, straight, rather awn-shaped, dark brown at base, distal half black.

Head: orange-brown above, greenish-white below.

Prothorax and thorax: coppery-brown above, fading to a yellowish-green on under surfaces.

Abdomen: first segment coppery-brown; second to sixth rich carmine; the remainder dull brown. The central segments are scarlet underneath, the anterior and posterior segments dull brown.

Length of abdomen 28.5 mm.; of hind wing 20 mm.

The species resembles very closely *C. erubescens*, Selys.

The principal differences on which the specific determination rests have been tabulated for me by Mr. H. Champion, who has kindly compared the type with an authentic specimen of *C. erubescens* from Queensland.

C. erubescens, Selys.

C. bellona, n. sp.

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| I. A* originates at cubito-anal cross-vein. | A* originates before level of cubito-anal cross-vein. |
| II. Excision on hind margin of segment 10 semi-circular. | Excision on hind margin of segment 10 Λ -shaped. |
| III. Lower anal appendages of male short and stout, reddish in colour. | Lower anal appendages of male long and slender, dark brown in colour, largely marked with black. |

The type specimen will be deposited in the British Museum.

4. *Pseudagrion pruinosum*, (Burm.).

Pseudagrion pruinosum, Kirby, Cat. Odonata, 1890, p. 153; Kruger, Stettin Entom. Zeit. 1898, p. 119.

Two males, Mt. Merinjak, January 18th, 1914.

An addition to the fauna. I have been able to compare these specimens with an example from Penang in the Indian Museum, labelled by de Selys.

5. *Disparoneura analis*, (de Selys).

Alloneura analis, Selys, Bull. Acad. Belg. (2) x. p. 451 (1860).

Disparoneura analis, Selys, Mem. Cour. Acad. Belg. xxxviii. p. 169 (1886); Kirby, Cat. Odon. p. 134 (1890); Kruger, Stettin Ent. Zeit. 1898, p. 111; Förster, Fascic. Malay. (sep.) Odonata, pt. ii. p. 11 (1907).

Two males, Baram, March 28th, 1910.

This species is additional to my list of the Bornean "Protoneura," and was overlooked by me in compiling the list. It has not been recorded from the island before.